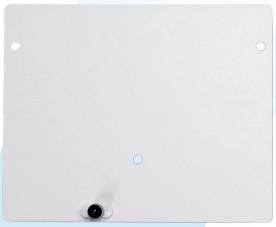
Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

Multi-band MicroSphere Antenna
IFMULT



MULTI-BAND OMNIDIRECTIONAL IN-BUILDING ANTENNA

The widespread use of cellular phones and wireless network applications inside buildings has increased the need for antenna systems that can provide considerable gain over traditional dipole antennas.

Laird Technologies' in-building wireless antennas are particularly applicable in environments where aesthetics and wide angle coverage are necessary for successful wireless deployment. Their surprisingly small size allow the antennas to be hidden almost anywhere, providing an invisible solution for most applications.

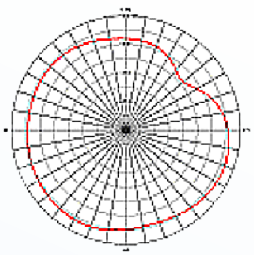
FEATURES

- Surprisingly small size allows it to be hidden almost anywhere, providing an invisible solution for many applications.
- The field pattern is toroidal, providing omni-directional coverage in any plane around the long axis of the antenna, and two lobes in any plane parallel to the long axis.

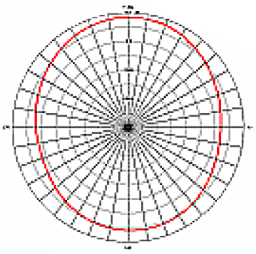
MARKETS

- The omni-directional pattern is suited to a variety of uses, including handheld devices, in-building systems or other applications where mobility is a factor.

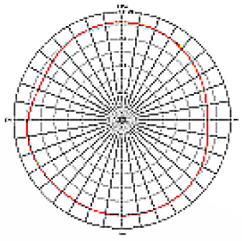
ANTENNA PATTERNS



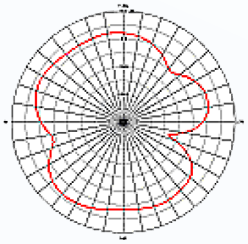
Azimuth

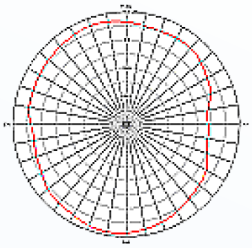


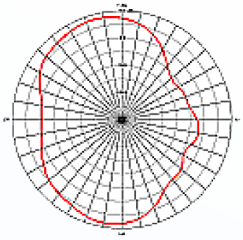
Elevation, Phi=0



Elevation, Phi=90







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Multi-band MicroSphere Antenna

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SPECIFICATIONS	
Element Type	Microstrip
Frequency Range	AMPS 806-896 MHz GSM 880-960 MHz DCS 1710-1880 MHz PCS 1850-1990 MHz UMTS 1920-2170 MHz
Peak Gain	3 dBi
Polarization	Linear
Impedance	50 ohms
Maximum Input Power	50 watts
VSWR	2:1
Dimensions (L x W x H)	11.2 x 13.8 x .25 cm
Housing	Acrylic
Operating/Storage Temperature	-40° to +70°C

MODEL #	REFERENCE #	CONNECTOR
IFMULT-NF00	CAF94454	N-Female
IFMULT-SFRA00	CAF94533	R.A. SMA Female Panel
IFMULT-SF00	CAF94362	SMA Female Panel

MOUNTING OPTIONS

- Includes nylon screws for mounting to ceiling tile or finished ceiling